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task taxonomy for concurrent programming

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## 1 Ada task taxonomy support for concurrent programming

Robert Chi Tau Lai  
 January 1991 ACM SIGSOFT Software Engineering Notes, Volume 16 Issue 1  
**Publisher:** ACM

Full text available: [pdf\(1.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 23, Citation Count: 3

The Ada task taxonomy can be used as the main scheme to help programmers to develop concurrent programs. The conventional way of defining a taxonomy for software modules is not based on the interactive behavior of the modules. The behavior of Ada tasks ...

## **2 Programming languages and systems for prototyping concurrent applications**



Wilhelm Hasselbring

March 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 1

**Publisher:** ACM

Full text available: pdf(559.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 39, Downloads (12 Months): 356, Citation Count: 3

Concurrent programming is conceptually harder to undertake and to understand than sequential programming, because a programmer has to manage the coexistence and coordination of multiple concurrent activities. To alleviate this task several high-level ...

**Keywords:** concurrency, distribution, parallelism, rapid prototyping, very high-level languages

## **3 Communications of the ACM: Volume 51 Issue 7**



July 2008 issue Volume 51 Issue 7

**Publisher:** ACM

Full text available: pdf(6.54 MB) digital edition Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 102, Downloads (12 Months): 102, Citation Count: 0

## **4 Communications of the ACM: Volume 51 Issue 1**



January issue Volume 51 Issue 1

2008

**Publisher:** ACM

Full text available: pdf(5.97 MB) digital edition Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 908, Downloads (12 Months): 2862, Citation Count: 0

## **5 Computing curricula 2001**



CORPORATE The Joint Task Force on Computing Curricula

September Journal on Educational Resources in Computing (JERIC), Volume 2001 1 Issue 3es

**Publisher:** ACM

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 221, Downloads (12 Months): 1779, Citation Count: 22

## **6** Evolving a language in and for the real world: C++ 1991-2006



Bjarne Stroustrup

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

**Publisher:** ACM

Full text available: [pdf\(838.10 KB\)](#) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 95, Downloads (12 Months): 960, Citation Count: 0

This paper outlines the history of the C++ programming language from the early days of its ISO standardization (1991), through the 1998 ISO standard, to the later stages of the C++0x revision of that standard (2006). The emphasis is on the ideals, constraints, ...

**Keywords:** C++, ISO, STL, evolution, history, language use, libraries, multi-paradigm programming, programming language, standardization

## **7** Static scheduling algorithms for allocating directed task graphs to multiprocessors



Yu-Kwong Kwok, Ishfaq Ahmad

December 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 4

**Publisher:** ACM

Full text available: [pdf\(723.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 111, Downloads (12 Months): 652, Citation Count: 62

Static scheduling of a program represented by a directed task graph on a multiprocessor system to minimize the program completion time is a well-known problem in parallel processing. Since finding an optimal schedule is an NP-complete problem in general, ...

**Keywords:** DAG, automatic parallelization, multiprocessors, parallel processing, software tools, static scheduling, task graphs

## **8 A simple mechanism for capturing and replaying wireless channels**

 Glenn Judd, Peter Steenkiste  
August 2005 E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis

**Publisher:** ACM

Full text available:  pdf(6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 73, Downloads (12 Months): 485, Citation Count: 1

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

**Keywords:** channel capture, emulation, wireless

## **9 Lowering the barriers to programming: A taxonomy of programming environments and languages for novice programmers**

 Caitlin Kelleher, Randy Pausch  
June 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 2

**Publisher:** ACM

Full text available:  pdf(14.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 125, Downloads (12 Months): 1023, Citation Count: 15

Since the early 1960's, researchers have built a number of programming languages and environments with the intention of making programming accessible to a larger number of people. This article presents a taxonomy of languages and environments designed ...

**Keywords:** Human-computer interaction, computer Science education, learning, literacy, problem solving

## **10 ACM SIGPLAN Notices: Volume 40 Issue 11**

 November 2005 issue Volume 40 Issue 11

**Publisher:** ACM

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

## 11 Process migration

 Dejan S. Milojić, Fred Douglass, Yves Paindaveine, Richard Wheeler, Songnian Zhou  
September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3

**Publisher:** ACM

Full text available:  pdf(1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 96, Downloads (12 Months): 625, Citation Count: 25

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has ...

**Keywords:** distributed operating systems, distributed systems, load distribution, process migration

## 12 Models and languages for parallel computation

 David B. Skillicorn, Domenico Talia  
June ACM Computing Surveys (CSUR), Volume 30 Issue 2  
1998

**Publisher:** ACM

Full text available:  pdf(298.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 93, Downloads (12 Months): 550, Citation Count: 46

We survey parallel programming models and languages using six criteria to assess their suitability for realistic portable parallel programming. We argue that an ideal model should be easy to program, should have a software development methodology, should ...

**Keywords:** general-purpose parallel computation, logic programming languages, object-oriented languages, parallel programming languages, parallel programming models, software development methods, taxonomy

## 13 Programming models for sensor networks: A survey

 Ryo Sugihara, Rajesh K. Gupta  
March ACM Transactions on Sensor Networks (TOSN), Volume 4 Issue 2  
2008

**Publisher:** ACM

Full text available:  pdf(2.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 239, Downloads (12 Months): 447, Citation Count: 0

Sensor networks have a significant potential in diverse applications some of which are already beginning to be deployed in areas such as environmental monitoring. As the application logic becomes more complex, programming difficulties are becoming a ...

**Keywords:** Programming models and languages, survey, taxonomy

**14 Multidimensional access methods**

 Volker Gaede, Oliver Günther  
June ACM Computing Surveys (CSUR), Volume 30 Issue 2  
1998

**Publisher:** ACM

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 84, Downloads (12 Months): 497, Citation Count: 218

Search operations in databases require special support at the physical level. This is true for conventional databases as well as spatial databases, where typical search operations include the point query (find all objects that contain ...

**Keywords:** data structures, multidimensional access methods

**15 The interdisciplinary study of coordination**

 Thomas W. Malone, Kevin Crowston  
March ACM Computing Surveys (CSUR), Volume 26 Issue 1  
1994

**Publisher:** ACM

Full text available:  pdf(584.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 144, Downloads (12 Months): 695, Citation Count: 118

This survey characterizes an emerging research area, sometimes called coordination theory, that focuses on the interdisciplinary study of coordination. Research in this area uses and extends ideas about coordination from disciplines ...

**Keywords:** computer-supported cooperative work, coordination, coordination science, coordination theory, groupware

## **16 A survey of linguistic structures for application-level fault tolerance**



Vincenzo De Florio, Chris Blondia

April 2008 ACM Computing Surveys (CSUR), Volume 40 Issue 2

**Publisher:** ACM

Full text available: [pdf\(2.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 374, Downloads (12 Months): 374, Citation Count: 0

Structures for the expression of fault-tolerance provisions in application software comprise the central topic of this article. Structuring techniques answer questions as to how to incorporate fault tolerance in the application layer of a computer program ...

**Keywords:** Language support for software-implemented fault tolerance, reconfiguration and error recovery, separation of design concerns, software fault tolerance

## **17 ACM SIGPLAN Notices: Volume 40 Issue 8**



August 2005 issue Volume 40 Issue 8

**Publisher:** ACM

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

## **18 Temporal logics for real-time system specification**



P. Bellini, R. Mattolini, P. Nesi

March 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 1

**Publisher:** ACM

Full text available: [pdf\(233.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 43, Downloads (12 Months): 287, Citation Count: 8

The specification of reactive and real-time systems must be supported by formal, mathematically-founded methods in order to be satisfactory and reliable. Temporal logics have been used to this end for several years. Temporal logics allow the specification ...

**Keywords:** logic specification languages, metric of time, modal logic, reactive systems, real-time, specification model, temporal constraints, temporal logics, temporal relationships

**19** Proceedings of the 2007 ACM symposium on Applied computing

 Yookun Cho, Yong Wan Koo, Roger L. Wainwright, Hisham M. Haddad, Sung Y. Shin  
March 2007 proceeding

**Publisher:** ACM

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

On behalf of the Organization Committee, it is our pleasure to welcome you to the 22nd Annual ACM Symposium on Applied Computing (SAC 2007). This year, the conference is hosted by Seoul National University and Suwon University in Gyeonggi-do, Korea. ...

**20** Interest-based personalized search

 Zhongming Ma, Gautam Pant, Olivia R. Liu Sheng  
February 2007 ACM Transactions on Information Systems (TOIS), Volume 25 Issue 1

**Publisher:** ACM

Full text available:  pdf(1.58 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 85, Downloads (12 Months): 679, Citation Count: 0

Web search engines typically provide search results without considering user interests or context. We propose a personalized search approach that can easily extend a conventional search engine on the client side. Our mapping framework automatically maps ...

**Keywords:** Open Directory, Personalized search, World Wide Web, information retrieval, user interest, user interface

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